

PATENT ABSTRACTS OF JAPAN

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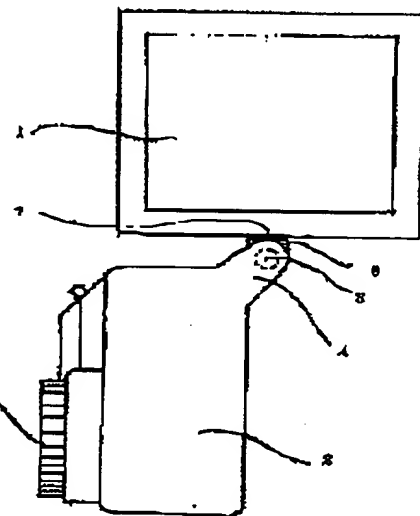
(72)Inventor : NISHIZAWA KYOICHI

(54) VIDEO MONITOR HORIZONTAL VERTICAL TURNING BASE

(57)Abstract:

PURPOSE: To contain a camcorder in a space at rear side of a monitor, to move the monitor to the upper part of the camcorder, to allow the camera to pick up the image of a photographer itself and to reduce a load exerted onto a drive shaft through the turning of the monitor only.

CONSTITUTION: A monitor horizontal drive shaft 7 is provided in the middle of the bottom side of a monitor 1, a horizontal drive bearing is provided in the middle of a turning base 6 and the monitor 1 and the turning base 6 are connected by the monitor horizontal drive shaft 7 and the horizontal drive bearing. Furthermore, a bearing 4 is provided to a rear side upper part, left and right sides of the camcorder 2, a monitor vertical drive shaft 3 is provided to the bearing 4, a turning base bearing is provided to the left and right sides of the turning base 6 and the turning base 6 and the bearing 4 are connected by the rotary base bearing and the monitor vertical drive shaft 3. Furthermore, the monitor 1 is turned vertically from the rear side of the camcorder to the upper face by the monitor vertical drive shaft 3.



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審査請求 未請求 請求項の数1 書面 (全 5 頁)

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(54) 【発明の名称】 ビデオモニター水平垂直回転台

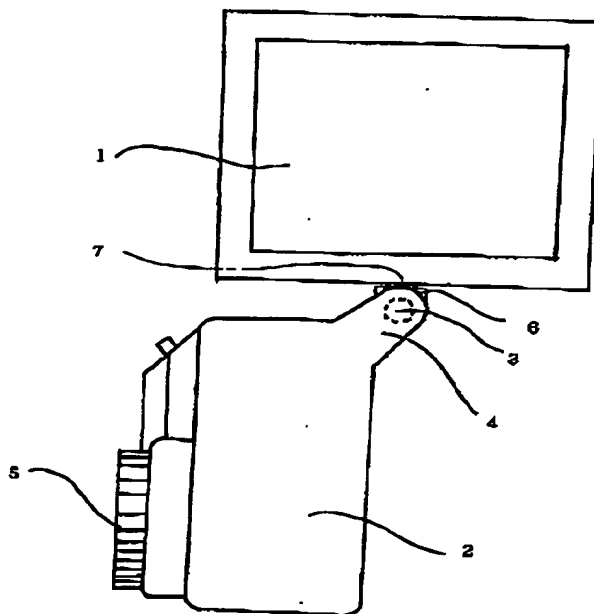
(57) 【要約】 (修正有)

【目的】 モニターの裏面の面積内にカメラ一体型VTRを収めることが出来る。カメラ一体型VTRの上部にモニターを移動させることが出来る。撮影者自身も揺れる。モニターだけを回転させるので、回転軸にかかる荷重が少ない。

【構成】 (イ) モニター1の底面中央にモニター水平回転軸7を設け、回転台6の中央に水平回転軸受を設け、モニター水平回転軸7と水平回転軸受で、モニター1と回転台6を接続する。

(ロ) カメラ一体型VTR2の背面上部、左右に軸受4を設け、軸受4にモニター垂直回転軸3を設け、回転台6の左右に回転台軸受を設け、回転台軸受とモニター垂直回転軸3で回転台6と軸受4を接続する。

(ハ) モニター垂直回転軸3でモニター1をカメラ一体型VTR2の背面から、上部面まで垂直回転出来るようにする。



【特許請求の範囲】

【請求項1】(イ)薄型画像表示装置(1)『以後、モニターと書く』の底面中央にモニター水平回転軸(7)を設け、回転台(6)の中央に水平回転軸受(9)を設け、モニター水平回転軸(7)と水平回転軸受(9)で、モニター(1)と回転台(6)を接続する。

(ロ)カメラ一体型VTR(2)の背面上部、左右に軸受(4)を設け、軸受(4)にモニター垂直回転軸

(3)を設け、回転台(6)の左右に回転台軸受(8)を設け、回転台軸受(8)とモニター垂直回転軸(3)で回転台(6)と軸受(4)を接続する。

(ハ)モニター垂直回転軸(3)でモニター(1)をカメラ一体型VTR(2)の背面から、上部面まで垂直回転出来るようにする。

以上のように構成された、ビデオモニター水平垂直回転台。

【発明の詳細な説明】

【0001】

【産業上の利用分野】この発明は、モニター『3型又は4型位』の裏面積と同等の、カメラ一体型VTRを作る

【0002】

【従来の技術】従来、モニターを見て撮影するモニター垂直回転型カメラ一体型VTRは、モニターの側面でビデオカメラを垂直回転させていた。

【0003】

【発明が解決しようとする課題】これには、次のような欠点があった、モニターの横にビデオカメラを回転軸で接続しているためモニターの裏面の面積内にカメラ一体型VTRが収まらない。

【0004】

【問題を解決するための手段】モニター(1)の底面中央にモニター水平回転軸(7)を設け、回転台(6)の中央に水平回転軸受(9)を設け、モニター水平回転軸(7)と水平回転軸受(9)で、モニター(1)と回転台(6)を接続する。カメラ一体型VTR(2)の背面上部、左右に軸受(4)を設け、軸受(4)にモニター垂直回転軸(3)を設け、回転台(6)の左右に回転台軸受(8)を設け、回転台軸受(8)とモニター垂直回転軸(3)で回転台(6)と軸受(4)を接続する。モニター垂直回転軸(3)でモニター(1)をカメラ一体型VTR(2)の背面から、上部面まで垂直回転出来るようにする。

【0005】

【作用】前方を撮影する時は、カメラ一体型VTR(2)の背面に上を下にして裏向いて付いているモニター(1)を垂直回転で持ち上げモニター(1)をカメラ一体型VTR(2)の上に立てる。撮影者を撮る場合は、レンズを撮影者に向けカメラ一体型VTR(2)の上部に裏向いて立っているモニター(1)を、180度

回転させ画面を撮影者に向け撮影する。

【0006】

【実施例】以下、本発明の実施例について説明する。

(イ)モニター(1)の底面中央にモニター水平回転軸(7)を設け、回転台(6)の中央に水平回転軸受(9)を設け、モニター水平回転軸(7)と水平回転軸受(9)で、モニター(1)と回転台(6)を接続する。

(ロ)カメラ一体型VTR(2)の背面上部、左右に軸受(4)を設け、軸受(4)にモニター垂直回転軸

(3)を設け、回転台(6)の左右に回転台軸受(8)を設け、回転台軸受(8)とモニター垂直回転軸(3)で回転台(6)と軸受(4)を接続する。

(ハ)モニター垂直回転軸(3)でモニター(1)をカメラ一体型VTR(2)の背面から、上部面まで垂直回転出来るようにする。

(ニ)モニター垂直回転軸(3)とモニター水平回転軸(7)の回転軸を中空にし、その中を配線する。

(ホ)カメラ一体型VTR(2)のレンズ上部にファインダーを一体化しても良い。

(ヘ)モニター水平回転軸(7)が、全回転しないようにストッパーを設ける。

【0007】本発明は、以上のような構成で、これを使用したカメラ一体型VTRは、モニターを見ながら撮影でき、垂直、水平回転で自分自身をモニターで見て撮影できる。撮影時以外は、モニター画面がカメラ一体型VTRの背面に裏向けて付けることが出来るのでモニター画面を保護することが出来る。

【0008】

【発明の効果】撮影時以外は、モニター画面を裏返すことによって、画面を保護することが出来る。モニターをカメラ一体型VTRの上に載せることが出来る。モニターを見て、撮影者自身も撮影できる。モニターだけを回転させるので、回転軸にかかる荷重が少ない。

【図面の簡単な説明】

【図1】本発明を取り付けたカメラ一体型VTRの斜視図

【図2】モニターをカメラ一体型VTRの背面に付けている側面図

【図3】カメラ一体型VTRの上部の位置にモニターを斜めに立てた側面図

【図4】カメラ一体型VTRの上部の位置にモニターを水平に載せた側面図

【図5】カメラ一体型VTRの上部の位置にモニターを垂直に立て、90度回転させた側面図

【図6】本発明の、ビデオモニター水平垂直回転台の部分断面図

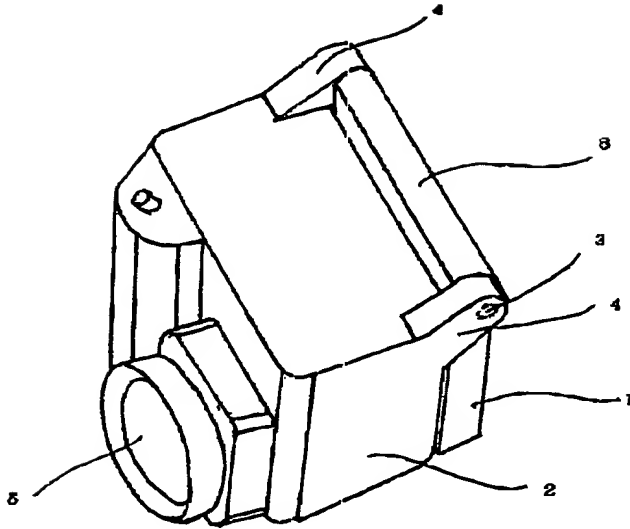
【図7】本発明を取り付けたカメラ一体型VTRの背面図

【符号の説明】

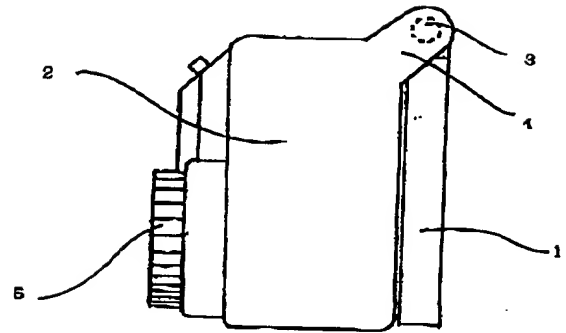
- (1) モニター
- (2) カメラ一体型VTR
- (3) モニター垂直回転軸
- (4) 軸受
- (5) レンズ

- (6) 回転台
- (7) モニター水平回転軸
- (8) 回転台軸受
- (9) 水平回転軸受

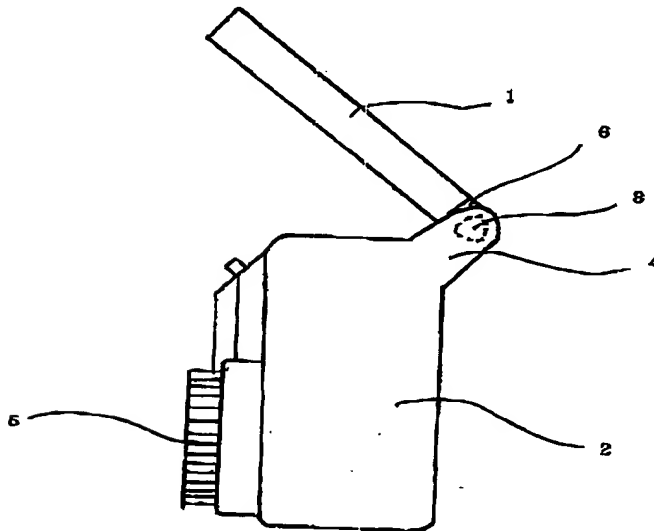
【図1】



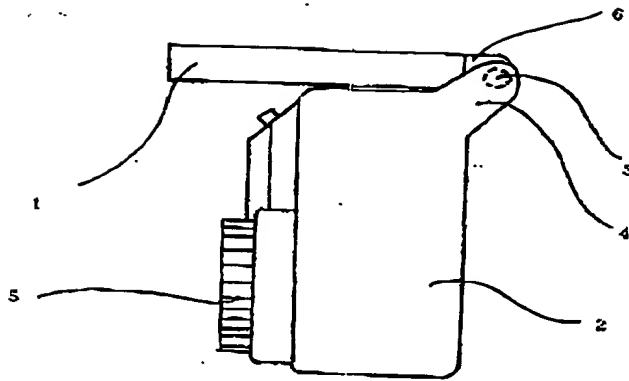
【図2】



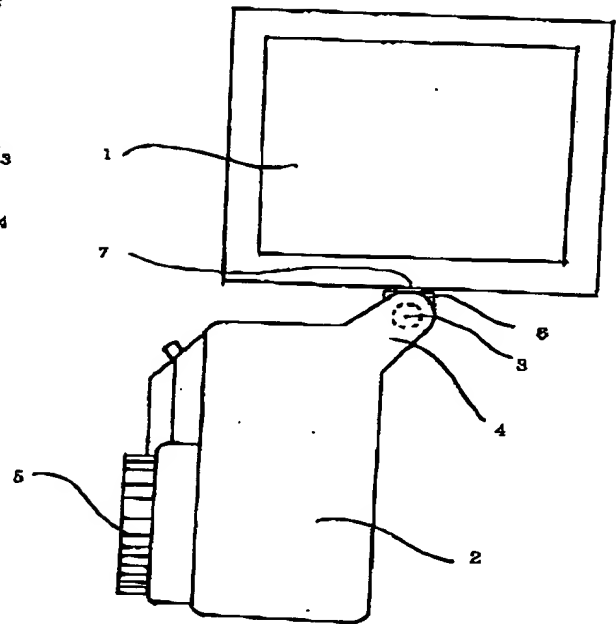
【図3】



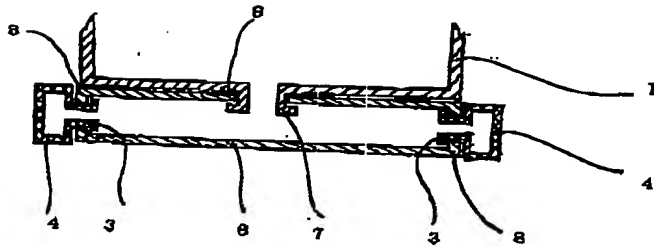
【図4】



【図5】



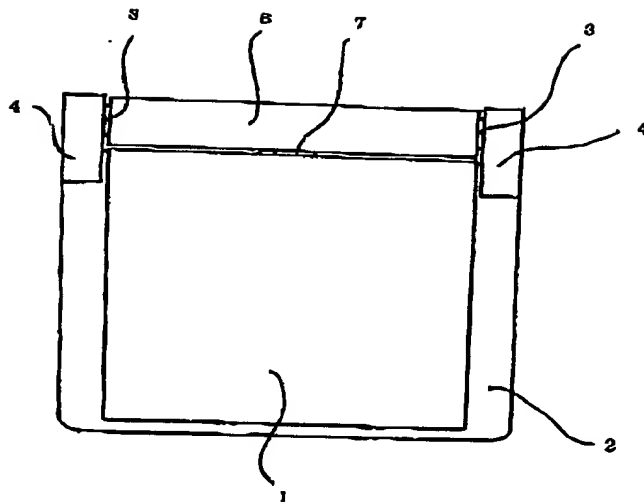
【図6】



(6)

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【図7】



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CLAIMS

[Claim(s)]

[Claim 1] (b) a thin image display device -- establish a monitor level revolving shaft (7) in the center of a base of (1 "it is henceforth written as a monitor"), prepare a level revolving-shaft carrier (9) in the center of a rotation base (6), and connect a rotation base (6) with a monitor (1) by the monitor level revolving shaft (7) and the level revolving-shaft carrier (9).

(b) Bearing (4) is prepared in the tooth-back upper part of a camcorder/movie (2), and right and left, prepare a monitor perpendicular revolving shaft (3) in bearing (4), prepare rotation base bearing (8) in right and left of a rotation base (6), and connect bearing (4) with a rotation base (6) with rotation base bearing (8) and a monitor perpendicular revolving shaft (3).

(c) It can be made to carry out with a monitor perpendicular revolving shaft (3) perpendicular rotation of the monitor (1) from the tooth back of a camcorder/movie (2) to an up side.

The video monitor level perpendicular rotation base constituted as mentioned above.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention can make a camcorder/movie equivalent to a monitor's "about 3 molds or 4 molds"'s flesh-side area.

[0002]

[Description of the Prior Art] Conventionally, the monitor perpendicular rotation mold camcorder/movie which looks at and photos a monitor carried out perpendicular rotation of the video camera on a monitor's side face.

[0003]

[Problem(s) to be Solved by the Invention] Since the video camera is connected beside [to which this had the following faults] a monitor with the revolving shaft, a camcorder/movie is not settled in the area of a monitor's rear face.

[0004]

[Means for Solving the Problem] A monitor level revolving shaft (7) is established in a monitor's (1)'s center of a base, a level revolving-shaft carrier (9) is prepared in the center of a rotation base (6), and a rotation base (6) is connected with a monitor (1) by the monitor level revolving shaft (7) and the level revolving-shaft carrier (9). Bearing (4) is prepared in the tooth-back upper part of a camcorder/movie (2), and right and left, a monitor perpendicular revolving shaft (3) is prepared in bearing (4), rotation base bearing (8) is prepared in right and left of a rotation base (6), and bearing (4) is connected with a rotation base (6) with rotation base bearing (8) and a monitor perpendicular revolving shaft (3). It can be made to carry out with a monitor perpendicular revolving shaft (3) perpendicular rotation of the monitor (1) from the tooth back of a camcorder/movie (2) to an up side.

[0005]

[Function] When photoing the front, a top is turned at the tooth back of a camcorder/movie (2) down, a back ***** monitor (1) is lifted by perpendicular rotation, and a monitor (1) is looked up to on a camcorder/movie (2). When taking a picture of a photography person, the monitor (1) which turns a lens to a photography person and is present in the upper part of a camcorder/movie (2) as flesh-side other side **** is rotated 180 degrees, and a screen is turned and photoed to a photography person.

[0006]

[Example] Hereafter, the example of this invention is explained.

(b) Establish a monitor level revolving shaft (7) in a monitor's (1)'s center of a base, prepare a level revolving-shaft carrier (9) in the center of a rotation base (6), and connect a rotation base (6) with a monitor (1) by the monitor level revolving shaft (7) and the level revolving-shaft carrier (9).

(b) Bearing (4) is prepared in the tooth-back upper part of a camcorder/movie (2), and right and left, prepare a monitor perpendicular revolving shaft (3) in bearing (4), prepare rotation base bearing (8) in right and left of a rotation base (6), and connect bearing (4) with a rotation base (6) with rotation base bearing (8) and a monitor perpendicular revolving shaft (3).

(c) It can be made to carry out with a monitor perpendicular revolving shaft (3) perpendicular rotation of the monitor (1) from the tooth back of a camcorder/movie (2) to an up side.

(d) Make hollow the revolving shaft of a monitor perpendicular revolving shaft (3) and a monitor level revolving shaft (7), and wire the inside of it.

(e) A finder may be united with the lens upper part of a camcorder/movie (2).

(**) Form a stopper so that a monitor level revolving shaft (7) may not all rotate.

[0007] This inventions are the above configurations, and the camcorder/movie which used this can be photoed

looking at a monitor, and can see and photo itself by the monitor by the perpendicular and level rotation. Except the time of photography, since a monitoring screen is made at the tooth back of a camcorder/movie by ** attachment ***** for flesh sides, a monitoring screen can be protected.

[0008]

[Effect of the Invention] Except the time of photography, a screen can be protected by turning a monitoring screen over. A monitor can be carried on a camcorder/movie. A monitor is seen and the photography person itself can take a photograph. Since only a monitor is rotated, there are few loads concerning a revolving shaft.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The perspective view of a camcorder/movie which attached this invention

[Drawing 2] The side elevation which has attached the monitor to the tooth back of a camcorder/movie

[Drawing 3] The side elevation which looked up to the monitor in the location of the upper part of a camcorder/movie aslant

[Drawing 4] The side elevation which put the monitor on the location of the upper part of a camcorder/movie horizontally

[Drawing 5] The side elevation which looked up to the monitor in the location of the upper part of a camcorder/movie perpendicularly, and was rotated 90 degrees

[Drawing 6] The fragmentary sectional view of a video monitor level perpendicular rotation base of this invention

[Drawing 7] Rear view of a camcorder/movie in which this invention was attached

[Description of Notations]

- (1) Monitor
- (2) Camcorder/movie
- (3) Monitor perpendicular revolving shaft
- (4) Bearing
- (5) Lens
- (6) Rotation base
- (7) Monitor level revolving shaft
- (8) Rotation base bearing
- (9) Level revolving-shaft carrier

[Translation done.]

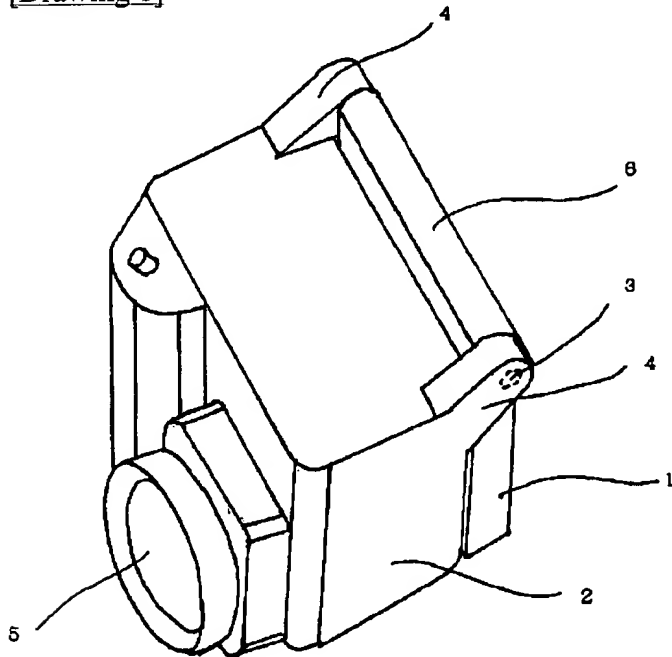
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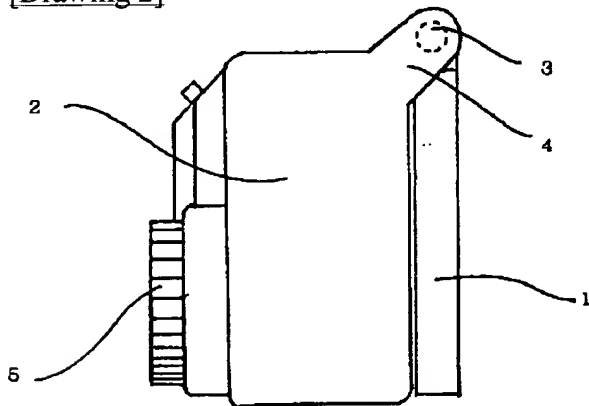
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DRAWINGS

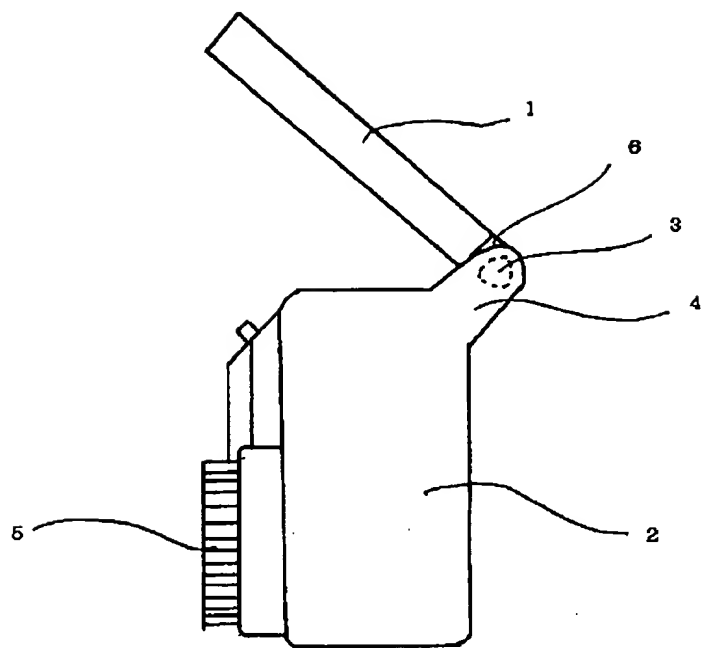
[Drawing 1]



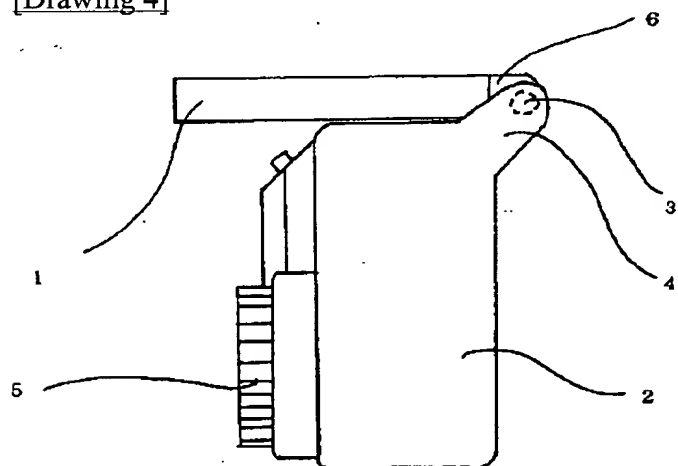
[Drawing 2]



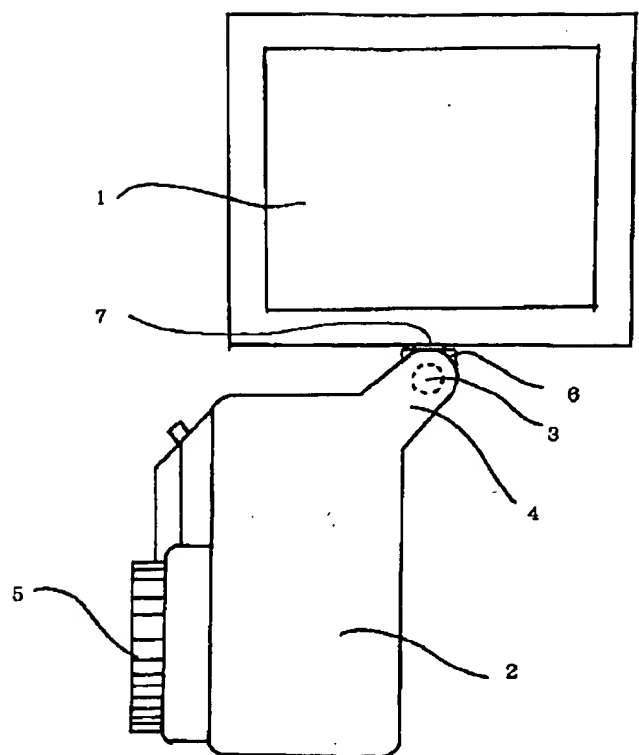
[Drawing 3]



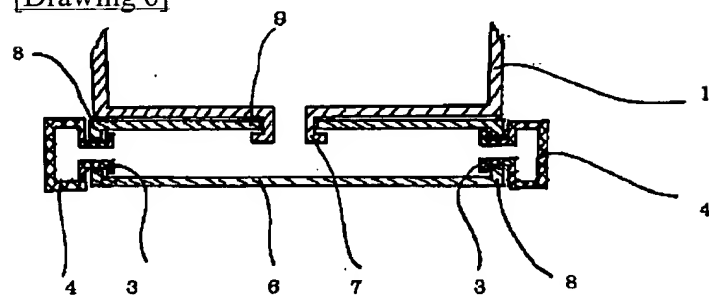
[Drawing 4]



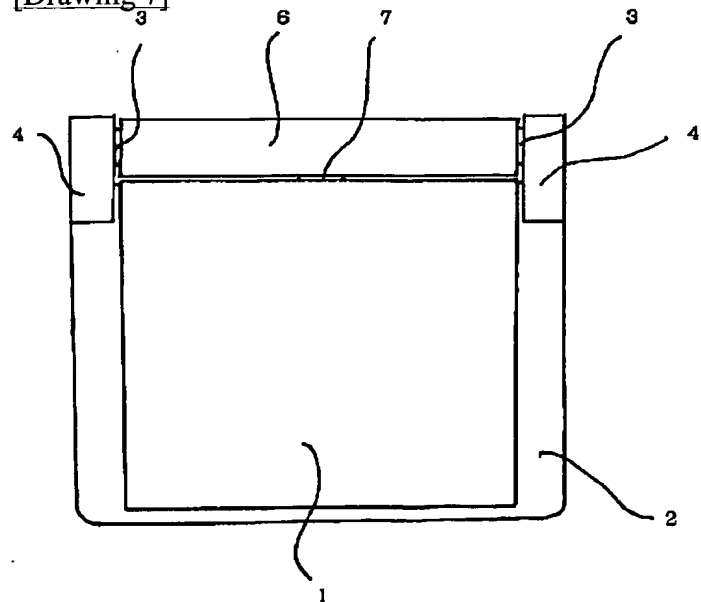
[Drawing 5]



[Drawing 6]



[Drawing 7]



[Translation done.]